FILE A – For Optional Classroom Use as a Practice Test

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ENGLISH LANGUAGE ARTS: READING — SESSION 1A

This practice session has two reading selections, seven multiple-choice questions, and two constructedresponse questions. Read each selection and answer the questions about it in the spaces provided in your practice test answer booklet.

Due to copyright restrictions, we are unable to reproduce the reading selection for the following four items.

"To a Daughter Leaving Home" from The Imperfect Paradise by Linda Pastan. Published by W. W. Norton & Company, Inc. Copyright ©1988 by Linda Pastan.

This poem may be easily accessed for free on the "Poetry 180" web site at http://www.loc.gov/poetry/180/075.html.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 1 through 3 in the spaces provided on page 2 of your practice test answer booklet.

- 1. In line 3, the word loping refers to the
 - A. narrator.
 - B. bicycle.
 - C. daughter.
 - D. path.
- 2. In lines 15 and 16, the narrator says that her daughter "grew smaller, more breakable." This phrase shows the narrator's
 - A. confusion.
 - B. excitement.
 - C. concern.
 - D. pride.

- 3. In lines 15 through 24, the narrator suggests the daughter is riding faster to emphasize the
 - A. daughter's desire for independence.
 - B. mother's difficulty in running beside her.
 - C. daughter's fear of falling off her bicycle.
 - D. mother's skill in teaching her daughter.

Write your answer to constructed-response question 4 in the space provided on page 2 of your practice test answer booklet.

4. In the poem "To a Daughter Leaving Home," the narrator describes her feelings about teaching her daughter to ride a bicycle. Explain how the narrator uses this incident to reveal her feelings about her daughter leaving home. Use specific examples from the poem to support your answer.

Learn how to make better photographs by following the tips offered by a famous photographer. Read the article and then answer the questions that follow.

Jay Dickman is a professional freelance photographer. His photographic assignments have included six Super Bowls, the Olympic Games, trips down the Amazon River, and cruising under the Arctic ice on a U.S. Navy nuclear submarine. He has always brought back award-winning images. In this article, Jay Dickman explains how you can take great photos.

Picture Perfect

Jay Dickman

National Geographic magazine has sent me to photograph the far corners of the earth. But you don't have to travel far to find a gold mine of great photo ops.* They're here at home—Scout activities, sporting events, school functions and more.

As a photographer, you're an archivist, a historian. The pictures you take will be a document recording your history. So I'm here to help you make them the best they can be.

It's said that the average magazine reader looks at a photo in an article for less than a second. What professional tricks of the trade make someone spend longer with a photo? What makes them work?

Photography has been around for more than 100 years. Yet its basics—composition, exposure, visual interest—remain unchanged. I've selected a few of my photos and added thoughts on why I think the images work. Follow these basics, as I do, and I guarantee your photos will come out great.

10 TOP TIPS

The photographer makes the photo, not the camera. Some of the best photos—ones that make me want to look and absorb what is going on in the frame—have been made by the simplest equipment. It's content that counts.

1. **Keep it simple.** Most good photos are simple. Everything going on in the frame is important to the image. Think of the camera viewfinder as an artist's canvas. A painter would not add a distracting element. So shoot only what's important to the image.

- 2. Get close. Move in, move in, move in. Fill the frame, your viewfinder, with the subject and what's interesting. It's better to crop a photo as you shoot it, not later. Most unsuccessful photos suffer because the photographer didn't physically move around to compose the photo. Instead, he let his eyes become a "zoom lens," moving in or out till the photo looked good—then wondered why his processed film looked nothing like what he remembered shooting.
- 3. Get rock steady. Cradle the camera using your left hand. Spread your feet a little wider than normal (shoulder-width or more). Make yourself a tripod by leaning against something or resting the camera on it. Then smoothly press the shutter button
- **4. Light it.** If you're photographing a person, indoors or outdoors, turn on the flash. It helps reduce harsh shadows, making everyone look

better. (Good points with Mom if you're taking family shots.) See examples **A** and **B**.

5. Keep it natural. Get your subjects to do what they were doing before you arrived, performing what it was that attracted you to take their picture. Photographing active people creates more interesting photos than if everyone looks directly at the camera.





^{*}ops – an abbreviation for the word "opportunities"

6. Rule of thirds. When composing a photo, divide the frame of the picture into thirds, vertically and horizontally. Then, place your subject where the lines intersect. Don't place your s



- intersect. Don't place your subject in the middle of the frame. See example **C**.
- 7. **Keep your background clean.** No clutter. Don't have a light pole growing out of Aunt Martha's head!
- **8. Golden hour.** Shoot for the beautiful light right after sunrise and right before sunset. The soft,

- golden light makes your subject more interesting. If you must shoot midday, when the sun is at its highest and harshest, turn on the camera's flash. It will fill in, or brighten, the extreme shadows on your subject's face.
- 9. Move around. Don't shoot all your shots at the same distance. Move in, move out, move around. Look at different points of interest. Make your photos interesting, so people will want to look at them.
- **10. Frame your subject.** Use trees, buildings, rocks, whatever is there. These help create visual interest and add to its story.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 5 through 8 in the spaces provided on page 3 of your practice test answer booklet.

- 5. The **main idea** of the first paragraph is that
 - A. National Geographic sends photographers all over.
 - B. good photographs can be taken almost anywhere.
 - C. good photographs are often taken at photo ops.
 - National Geographic takes photos at school functions.
- 6. What is the author's most important goal when taking photographs?
 - A. to capture someone's attention
 - B. to use good equipment
 - C. to travel to unusual places
 - D. to receive numerous awards

- 7. According to the article, what is the cause of most bad photographs?
 - A. the attitude of the photographer toward his or her subject
 - B. not using a flash to help reduce harsh shadows
 - C. not understanding the equipment being used
 - D. the distance of the photographer from his or her subject
- 8. Which phrase **best** summarizes the advice in tip 8, "Golden hour"?
 - A. avoid shadows
 - B. photograph at dawn
 - C. time of day matters
 - D. use your flash often

Write your answer to constructed-response question 9 in the space provided on page 3 of your practice test answer booklet.

9. Using **three** of the author's "10 Top Tips," describe how photograph B could be improved. Explain why each tip you chose would improve photograph B.

PLEASE STOP! DO NOT GO ON TO THE NEXT PAGE.



ENGLISH LANGUAGE ARTS: READING — SESSION 1B

This practice session has one reading selection, eight multiple-choice questions, and one constructed-response question. Read the selection and answer the questions about it in the spaces provided in your practice test answer booklet.

Read the article entitled "Fire Down Below" and then answer the questions that follow.

Fire Down Below

A. T. McPhee

Hundreds of fires deep underground rage throughout the world, damaging the environment and threatening life at the surface.

Two-hundred-foot flames soared at the edge of Glenwood Springs, Colo., about 200 kilometers (125 miles) west of Denver, last June. Officials evacuated hundreds of homes; their owners had to find temporary shelter far from the reaches of the flames.

"This is scary," resident Jean Martensen told *The Glenwood Post*, her local newspaper, as the blaze crept toward her town. The fire, called the Coal Seam Fire, was one of nearly 350 that torched more than 161,880 hectares (400,000 acres) of land last summer from Colorado to California.

Most fires in the West were caused by lightning strikes. People also started some. But the fire that threatened Glenwood Springs was started by a fire in a ribbon of coal, called a *coal seam*, deep underground. That underground fire has been burning for more than 40 years.

FIRESTARTERS

The underground fire that started the Coal Seam Fire is one of hundreds now burning throughout the world. An underground fire can start when lightning ignites a coal seam near the surface. *Spontaneous combustion* is another common cause of underground fires. Spontaneous combustion is the natural starting of a fire without the application of external heat.

Spontaneous combustion can occur in a coal seam where oxygen exists in the cracks and crevices around it. *Pyrite* and other minerals in the coal undergo a chemical reaction called *low-temperature oxidation*, in which they combine with the oxygen and give off heat. If an area of oxidizing coal reaches

an *ignition temperature* of 200 degrees Celsius (392 degrees Fahrenheit), it can suddenly burst into flames.

As a coal seam burns, it turns to *ash*, a powder similar to the leftover ashes in a fireplace. Ash can't support the weight of rock layers above it. Eventually, the layers collapse. When they do, cracks and crevices form in the ground and allow more oxygen to get through. The oxygen continues to feed the fire.

Underground fires can burn for hundreds, even thousands, of years. A fire inside Burning Mountain in Australia is believed to have been burning for 2,000 years. Visitors commonly mistake the mountain for a volcano because of smoke coming from the fire.

FIRE TOWN

People can also cause underground fires. One such fire has been burning below Centralia, Pa., since 1961.

The Centralia fire started when flames from a small pile of burning trash ignited a coal seam near the surface. Centralia was then a busy coal-mining town, home to about 1,100 people. Officials first thought the fire would burn itself out, but when it didn't, people started leaving.

Only 15 people live there now. With millions of tons of unburned coal remaining beneath Centralia, the fire might not burn out for decades.

LONG-TERM BURNS

People who live above underground fires put themselves at risk because burning coal gives off a number of harmful gases, including *carbon monoxide* (CO), a colorless, odorless gas. When inhaled, CO attaches quickly to oxygen molecules in the bloodstream. That attachment robs the body of oxygen.

Health officials say exposure to small amounts of CO can lead to headaches, joint and muscle pain, memory loss, and seizures. Exposure to large amounts of the gas can cause death within minutes.

Underground coal fires also release *carbon dioxide* (CO_2) , a gas that is slowly building up in the atmosphere and thought to be causing global warming. Hundreds of underground fires in China release as much CO_2 each year as all the cars and small trucks in the entire United States.

PUTTING THEM OUT

When gases from an underground fire put people at risk, officials may try to extinguish the fire. Before doing that, firefighters must know the precise location and size of the fire.

To gather that information, geologists use satellites equipped with devices, called *thermal imaging units*, that measure the amount of heat coming from Earth's surface. Thermal imaging units far above Earth can scan large areas and pinpoint the size and location of underground coal fires.

To put out an underground coal fire, firefighters may drill holes around the burning area. They pour into the holes a cement mixture similar to concrete to create a fireproof barrier around the fire.

Firefighters can also drill holes directly into a coal seam or coal mine. They can then inject a firefighting foam into the hole to extinguish the flames. Neither method works every time, however, and both are expensive.

STAYING PUT

Carbon monoxide poisoning isn't the only danger to living above an underground fire. The fire can cause the ground to cave in, injuring or killing anyone on the collapsed ground.

Lamar Mervine, the 84-year-old mayor of Centralia, doesn't think that will happen to his town. He plans to stay as long as he lives.

"We like it here," Mervine told the Pittsburgh *Tribune-Review*. "This is the nicest town in the region. And there is no reason for us to move. None whatsoever."

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 10 through 17 in the spaces provided on page 4 of your practice test answer booklet.

- 10. What is the **main** purpose of the first three paragraphs?
 - A. to tell about the dangers of lightning strikes
 - B. to introduce the subject of underground fires
 - C. to talk about some causes of major fires
 - D. to provide news about Glenwood Springs

- 11. According to the article, what is the **most** common cause of fires in the West?
 - A. coal mines
 - B. careless people
 - C. arson
 - D. lightning

- 12. Paragraph 5 mainly focuses on
 - A. listing the primary causes of deadly underground fires.
 - B. explaining the conditions needed for spontaneous combustion.
 - C. comparing spontaneous combustion to other causes of fires.
 - D. describing the importance of knowing ignition temperatures.
- 13. According to the article, the oxygen necessary to feed underground fires comes from
 - A. leftover ash.
 - B. oxidized coal.
 - C. rock layers.
 - D. cracks and crevices.
- 14. The **main** dangers of living above an underground fire are cave-ins and
 - A. carbon monoxide poisoning.
 - B. low-temperature oxidation.
 - C. carbon dioxide poisoning.
 - D. spontaneous combustion.

- 15. In paragraph 13, the mention of hundreds of underground fires in China **mainly** serves to
 - A. persuade the reader to help eliminate global warming.
 - B. warn the reader about the dangers of traveling to China.
 - C. emphasize how dangerous these fires are to the environment.
 - D. explain how carbon dioxide is released into the atmosphere.
- 16. Which of the following would a thermal imaging unit be **most** useful in locating?
 - A. a major deposit of coal inside rock layers
 - B. a train car loaded with coal on a deserted track
 - C. a burning coal seam beneath a range of foothill mountains
 - D. an underground lake surrounded by coal mines
- 17. Based on information in the article, what is **most likely** true of coal seam fires?
 - A. They burn slowly but very steadily.
 - B. They burn quite slowly but have little smoke.
 - C. They burn fast and can be very hot.
 - D. They burn for decades and are easily put out.

Write your answer to constructed-response question 18 in the space provided on page 4 of your practice test answer booklet.

18. In your own words, explain what causes underground fires and how they can be extinguished. Use information from the article to support your answer.





Session 2A—Math	nematics
(Calculator Not Allowed)	Practice Test

MATHEMATICS (CALCULATOR NOT ALLOWED) — SESSION 2A

This practice session has three multiple-choice questions and one short-answer question.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 1 through 3 in the spaces provided on page 5 of your practice test answer booklet.

Use the line graph below to answer question 1.



- 1. Which inequality describes this graph?
 - A. x > -2
 - B. $x \ge -2$
 - C. x < -2
 - D. $x \le -2$
- 2. Melissa's credit card company charges $1\frac{1}{2}\%$ monthly interest on each end-of-month balance. How much interest will Melissa be charged if her end-of-month balance is \$200?
 - A. \$ 1.50
 - B. \$ 3.00
 - C. \$15.00
 - D. \$30.00

- 3. It takes 3 cups of flour to make 2 dozen cookies. How much flour is needed to make 7 dozen cookies?
 - A. $4\frac{2}{3}$ cups
 - B. 6 cups
 - C. $10\frac{1}{2}$ cups
 - D. 12 cups

Write your answer to short-answer question 4 in the box provided on page 5 of your practice test answer booklet. Be sure to answer and label all parts (a and b) of the question.

- 4. a. List all of the whole-number factors of 12.
 - b. Circle the factors of 12 that are prime numbers.

Session 2B—Mathematics (Calculator Allowed) Practice Test

MATHEMATICS (CALCULATOR ALLOWED) — SESSION 2B

This practice session contains thirteen multiple-choice questions, one short-answer question, and two constructed-response questions.

Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 5 through 17 in the spaces provided on page 6 of your practice test answer booklet.

- 5. Mark made a presentation to his middle school principal asking him to increase the number of fun nights offered by the school. Which argument in favor of this request is the **least** biased?
 - A. "80% of the eighth graders I asked want more fun nights."
 - B. "All my friends and I want the change."
 - C. "I surveyed a random sample of students, and 80% would like more fun nights."
 - D. "Players on the basketball team want more fun nights."
- 6. Which expression represents a number that is three less than twice *d*?

A.
$$3 + 2d$$

B.
$$3 - 2d$$

C.
$$2d - 3$$

D.
$$\frac{d}{2} - 3$$

7. The population of a country is estimated at 1.04×10^9 people. Which number is closest to 1.04×10^9 ?

8. Which expression shows the prime factorization of 40?

A.
$$4 \times 10 \times 1$$

C.
$$2 \times 3 \times 5$$

D.
$$2^3 \times 5$$

9. Which ordered pair satisfies the following equation?

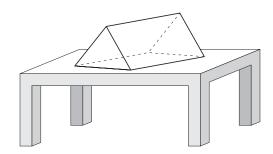
$$y = 4x - 3$$

A.
$$(0, -3)$$

C.
$$\left(0, \frac{3}{4}\right)$$

D.
$$\left(-\frac{3}{4},0\right)$$

10. Lisa placed a **triangular right prism** on a table as shown below.



If she traces around the face of the prism that touches the table, what shape will she have drawn?

A.



- В.
- C. _____
- D. _____

11. Jake read in the newspaper that one U.S. dollar was worth \$1.53 in Canadian money. If *n* stands for a number of U.S. dollars, which equation gives the value, *v*, of those dollars in Canadian money?

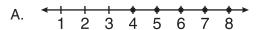
A.
$$v = n + 1.53$$

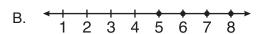
B.
$$v = n - 1.53$$

C.
$$v = \frac{n}{1.53}$$

D.
$$v = 1.53n$$

12. Which graph shows the solution for the inequality x > 4 when x is a real number?





13. Which equation when graphed is not a straight line (is nonlinear)?

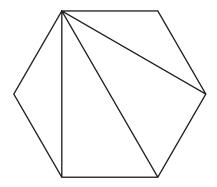
A.
$$y = 2x^2 + 4$$

B.
$$y = 3x$$

C.
$$y = 2x + 5$$

D.
$$y = 4$$

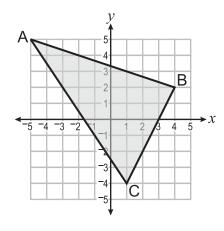
14. The figure below is a regular hexagon with diagonals drawn from one of its vertices.



- What kinds of triangles are formed by the diagonals and the sides of this regular hexagon?
- A. 4 acute triangles
- B. 4 obtuse triangles
- C. 2 obtuse and 2 right triangles
- D. 2 obtuse and 2 acute triangles
- 15. Joelyn has decided to save \$12 a week to buy a stereo system that costs \$125. Which expression shows how much money she will still have to save after *n* weeks?

C.
$$(125 + 12)n$$

Use the graph below to answer question 16.



16. Which of the following are coordinates of a point located on a side of triangle ABC?

17. At Handy Rentals, a car rents for \$45 per day plus 20 cents per mile driven. If *c* is the cost in dollars of the rental and *m* is the number of miles the car is driven, which equation represents the cost for renting and driving that car for one day?

A.
$$c = 45 + 0.20m$$

B.
$$c = 45m + 20$$

C.
$$m = 45c + 0.20$$

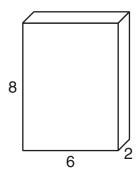
D.
$$m = 45 + 0.20c$$

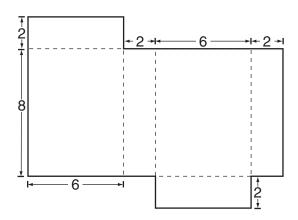
Write your answer to short-answer question 18 in the box provided on page 6 of your practice test answer booklet.

18. Between 1770 and 1780 the population of Maine **increased** by about 60%. If the population in 1770 was 31,300, what was the population (to the nearest hundred) in 1780? Show or describe the steps you used to find your answer.

Write your answers to constructed-response questions 19 and 20 in the boxes provided on pages 6 and 7 of your practice test answer booklet. Be sure to answer and label all parts (a, b, c, etc.) of the questions.

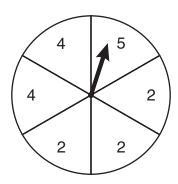
19. The pattern (without overlaps) of a box is shown below. The dimensions are given in inches.





- a. How many cubic inches of sugar can this box hold? Show your work or explain how you found your answer.
- b. If the cardboard costs \$0.0004 per square inch, what is the cost of the cardboard for one box? Show your work or explain how you found your answer.

The spinner shown below has six equal sections. Use the spinner to answer question 20.



- 20. Bonnie knows that probability can be represented as a fraction between and including zero and one.
 - a. What is the probability of this event: the spinner lands on a section labeled 4?
 - b. What does it mean to have a probability of zero?
 - c. Describe a spinner event that would have a probability of zero.
 - d. What does it mean to have a probability of one?
 - e. Describe a spinner event that would have a probability of one.

Session 3A Science and Technology Practice Test

SCIENCE AND TECHNOLOGY — SESSION 3A

This practice session contains sixteen multiple-choice questions and three constructed-response questions.

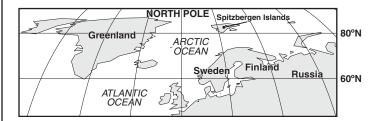
Choose the best answer for each multiple-choice question. Fill in the bubble next to your answer choices for questions 1 through 16 in the spaces provided on page 8 of your practice test answer booklet.

 Diane wanted to test how well three antiseptic cleaning solutions stop bacterial growth. She soaked paper disks in each of the three solutions and placed each of them on a petri dish with bacteria growing on it.

After 48 hours Diane observed a clear area around the disks, indicating no growth of bacteria. She concluded that each of the solutions stopped bacterial growth. Her conclusion might not be correct because her experiment

- A. did not include a control.
- B. was too long.
- C. was contaminated.
- D. was too complicated.
- 2. Which statement is an opinion?
 - A. Fossils are found mostly in sedimentary rocks
 - B. Many dinosaur fossils have been found in the state of Montana.
 - C. Scientists use fossils to show how organisms have changed over time.
 - D. Fossils found in South America are better than those found in Africa.

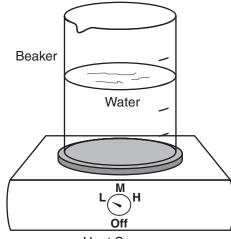
Use the map below to answer question 3.



- 3. Which of the following is the **best** explanation scientists could give for the existence of warmwater coral fossils on Spitzbergen Islands?
 - A. Many years ago tourists left the fossils on the islands.
 - B. Scientists using inaccurate information identified the fossils.
 - C. When the coral was alive, the islands were in warmer water.
 - D. The fossils are not real; they are just rocks with marks that look like coral.
- 4. Glenn is looking at a diagram that illustrates an organ system in the human body, but the system is not identified. He claims that it is the endocrine system. Glenn is correct if the diagram includes
 - A. a heart connected to blood vessels.
 - B. a brain connected to the spinal cord and nerves.
 - C. an air passage to the lungs and a pair of lungs.
 - D. glands such as the pituitary and thyroid.

- 5. Which of the following determines the seasons on Earth?
 - A. distance from the Sun to Earth
 - B. distance from Earth to the Moon
 - C. reflection of the Sun's rays off the Moon
 - D. directness of the Sun's rays hitting Earth
- 6. In the mid-1800s, Louis Pasteur proved the germ theory of disease. The impact of his work saved millions of human lives. Which invention made Pasteur's work possible?
 - A. the telescope
 - B. the microscope
 - C. the endoscope
 - D. the spectroscope
- 7. A student with a cold virus sneezes during class. How might this cold virus affect the classroom environment?
 - A. It could contaminate the entire environment.
 - B. It could make other viruses more infectious.
 - C. It could increase bacterial infections.
 - It could stay active in the classroom for two months.

Use the picture below to answer question 8.

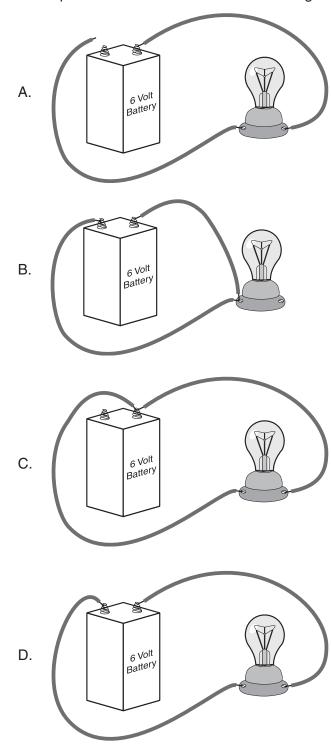


Heat Source

- 8. Which statement **best** describes the motion of the water molecules when heat is added to the beaker?
 - A. The molecules speed up.
 - B. The molecules slow down.
 - C. The molecules move closer together.
 - D. The molecules do not change their motion.
- 9. Which tool can be used to see the atoms that make up matter?
 - A. a light microscope
 - B. a refracting telescope
 - C. a reflecting telescope
 - D. an electron microscope

- 10. Humans are more like reptiles than like insects because humans and reptiles
 - A. have a spinal column.
 - B. are warm-blooded.
 - C. have similar vision.
 - D. are externally fertilized.
- 11. Which organism is **most closely** related to *Ursus* arctos horribillis?
 - A. Ursus americanus
 - B. Canis lupus arctos
 - C. Carcinus maenas
 - D. Puma concolor
- 12. Which evidence would be **most** helpful to scientists in determining the age of Earth?
 - A. a comparison of Earth's composition to other planets' compositions
 - B. soils, fossils, and remnants of mountains
 - C. sediments, minerals, soils, and size of
 - D. fossil records, rock records, and layers of Earth
- 13. Which evidence would a geologist find useful in determining the age of rock layers?
 - A. the pressure reading between rock layers
 - B. the index fossil in each rock layer
 - C. the density of materials in each rock layer
 - D. the temperature of each rock layer

14. A student wants to build a simple circuit that will light a bulb from a battery. Which diagram shows a completed circuit in which the bulb will light?

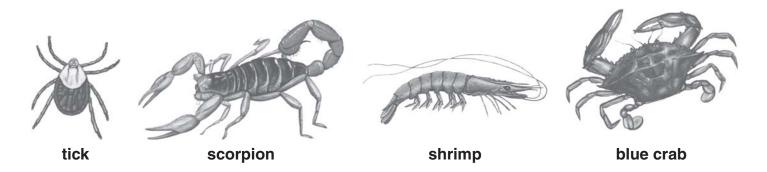


- 15. Which distance is **most likely** described in light-years?
 - A. distance to the Moon
 - B. distance to a galaxy
 - C. distance to Australia
 - D. distance to an Earth satellite

- 16. The ways in which scientists share information have changed dramatically in recent years. If a scientist discovers a fossil and wants to conduct research on the fossil, a quick way to start would be to
 - A. perform an Internet search for information.
 - B. check out library books on related topics.
 - C. send a letter to research scientists requesting information.
 - D. post an advertisement for information in scientific journals.

Write your answers to constructed-response questions 17 through 19 in the boxes provided on pages 8 and 9 of your practice test answer booklet. Be sure to answer all parts of question 18.

Use the pictures below to answer question 17.



17. Each of these organisms belongs to the same group in the scientific classification system. Give **three** convincing arguments to support the idea that these organisms are closely related. Be sure to include structures and physical characteristics of the organisms in your arguments.

Use the list of substances below to answer question 18.

- water
- table salt (NaCl)
- · pure gold ring
- pizza
- air
- carbon dioxide (dry ice)
- nitrogen
- 18. a. Categorize each substance as an element, a compound, or a mixture.
 - b. Explain how each substance belongs in the category you chose.
- 19. A large forest is bought for a housing development. Before development begins, the forest
 - · supports fifty white-tailed deer,
 - · has one large lake and four streams, and
 - · contains five species of trees.

Describe and explain three ways that building this housing development will affect the deer population.

ACKNOWLEDGMENTS

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"Picture Perfect" (pp. A-5–A-6) by Jay Dickman as it appeared in *Boys' Life*, June 2002. Published by the Boy Scouts of America. Copyright © 2002 by the Boy Scouts of America.

"Fire Down Below" (pp. A-8–A-9) by A.T. McPhee as it appeared in *Current Science*, October 2002. Published by Weekly Reader Corporation. Copyright © 2002 by Weekly Reader Corporation.

Sources of the exercises selected for this test include: Maine State Advisory Committees, Measured Progress, and previous Maine state testing programs.